Congratulations! You passed!

Grade received 90% Latest Submission Grade 90%

To pass 80% or higher Go to next item

1.	Which of the following do you agree with?	1/1 point
	Face recognition requires comparing pictures against one person's face.	
	Face verification requires K comparisons of a person's face.	
	Face recognition requires K comparisons of a person's face.	
	∠ ⁿ Expand	
	 Correct Correct, in face recognition we compare the face of one person to K to classify the face as one of those K or not. 	
2.	Why is the face verification problem considered a one-shot learning problem? Choose the best answer.	1/1 point
	Because we are trying to compare to one specific person only.	
	Because we might have only one example of the person we want to verify.	
	Because of the sensitive nature of the problem, we won't have a chance to correct it if the network makes a mistake.	
	Because we have only have to forward pass the image one time through our neural network for verification.	
	∠ [™] Expand	
	 Correct Correct. One-shot learning refers to the amount of data we have to solve a task. 	
3.	You want to build a system that receives a person's face picture and determines if the person is inside a workgroup. You have pictures of all the faces of the people currently in the workgroup, but some members might leave, and some new members might be added. To train a system to solve this problem using the triplet loss you must collect pictures of different faces from only the current members of the team. True/False?	1/1 point
	○ True	
	False	
	∠ ⁷ Expand	
	 Correct Correct. Although it is necessary to have several pictures of the same person, it is not absolutely necessary that all the pictures only come from current members of the team. 	
4.	In the triplet loss:	1/1 point
	$\max\left(\left\ f(A)-f(P) ight)^2-\left\ f(A)-f(N) ight)^2+lpha,0 ight)$	
	Which of the following are true about the triplet loss? Choose all that apply.	
	$\ensuremath{ extstyle if} f(A)$ represents the encoding of the Anchor.	
	Correct Correct. f represents the network that is in charge of creating the encoding of the images, and A represents the anchor image.	
	We want that I so the negative images are further away from the anchor than the positive images.	
	\checkmark Correct Correct. Being a positive image the encoding of P should be close to the encoding of	

